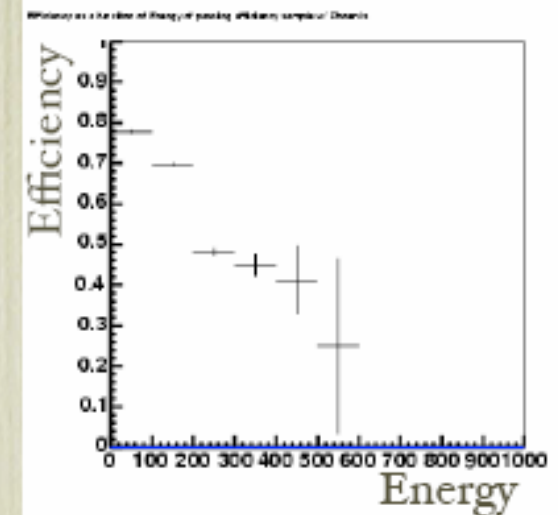
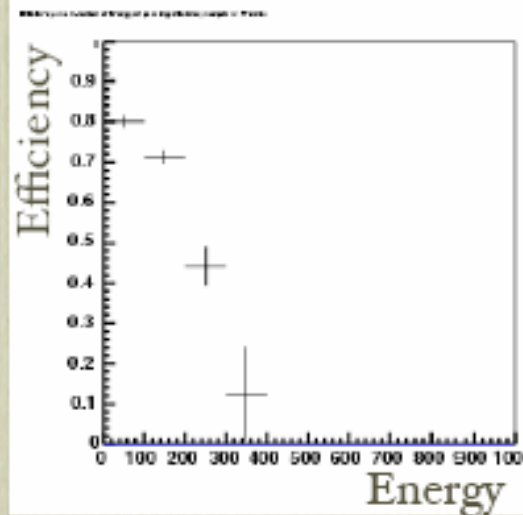
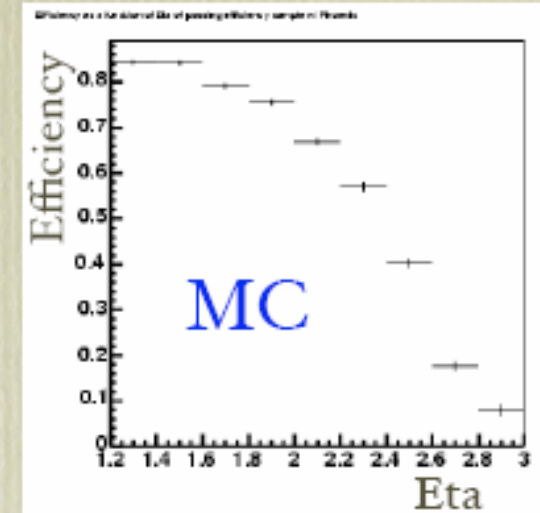
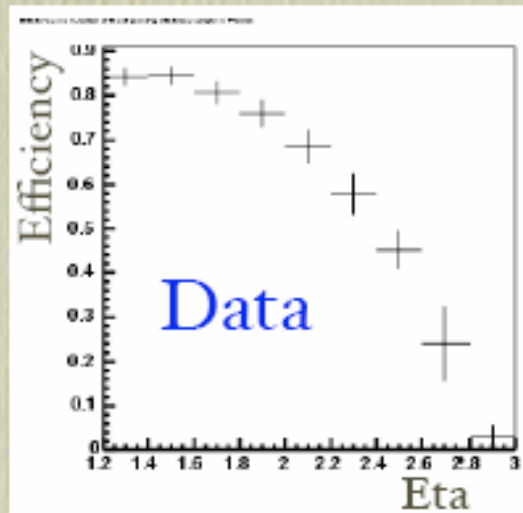


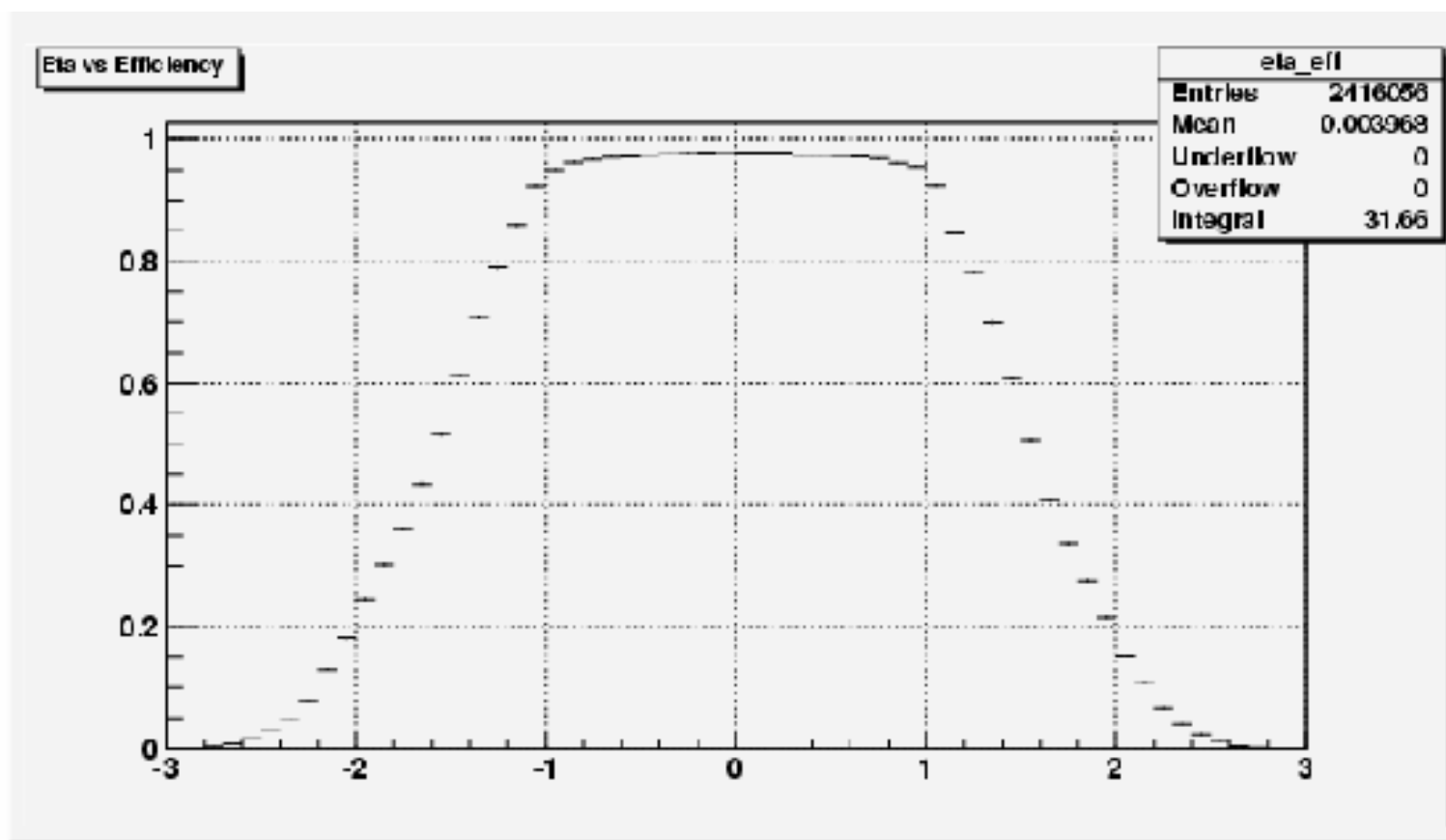
Phoenix Tracking

- Known eta dependence is well-modeled in MC
- No energy dependence when corrected for eta dependence (remember, these are Z events!)
- Average efficiency for plug electrons from CP $Z \rightarrow ee$ is 73%



Silicon tracking performance (Dan Ryan)

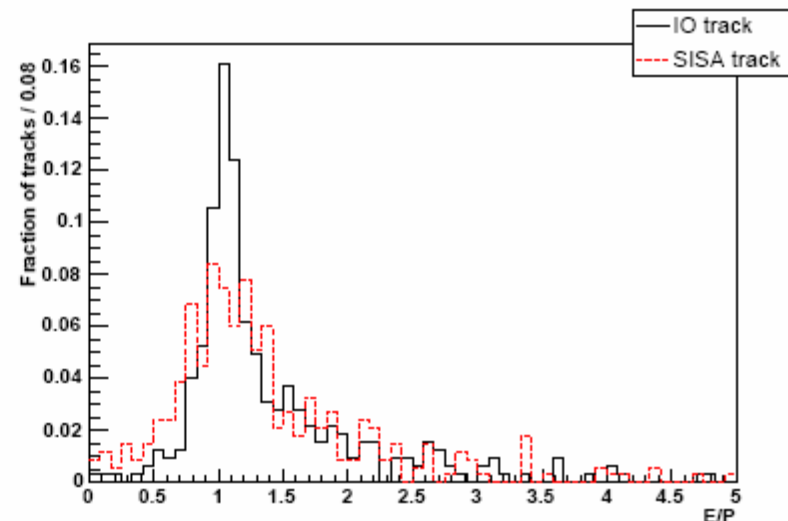
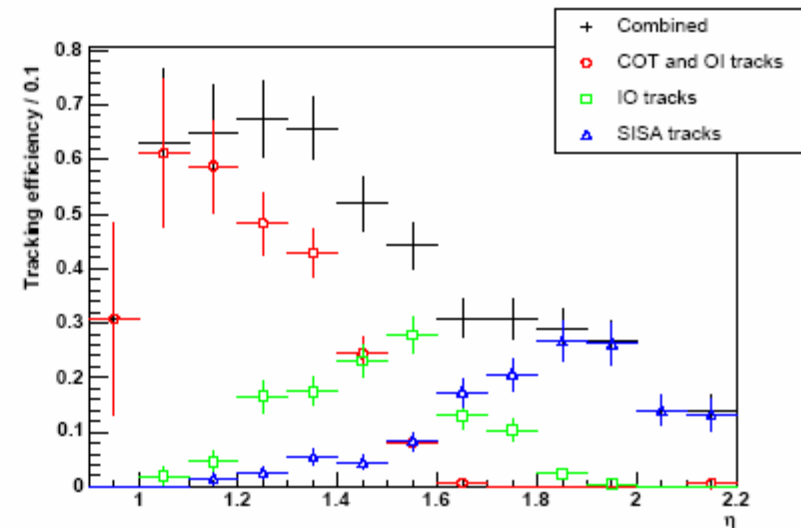
- ▷ comparing generated and reconstructed tracks:
 - ⇒ tracking efficiency and resolution ($\Delta p/p$) by eta and p_T

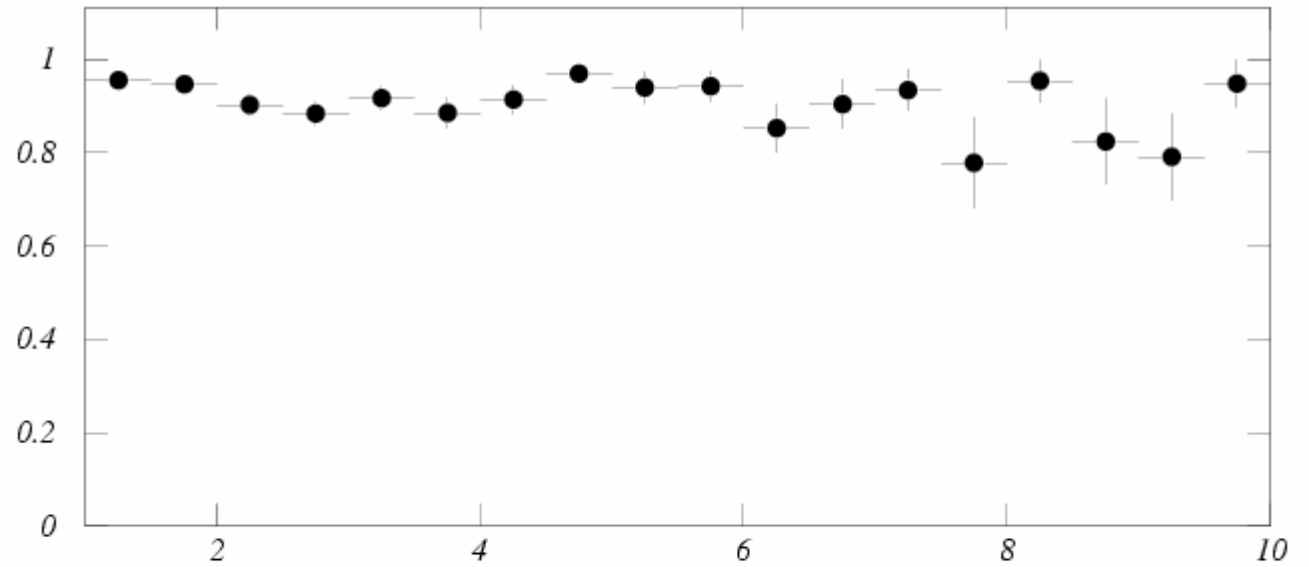


IO Tracking Performance

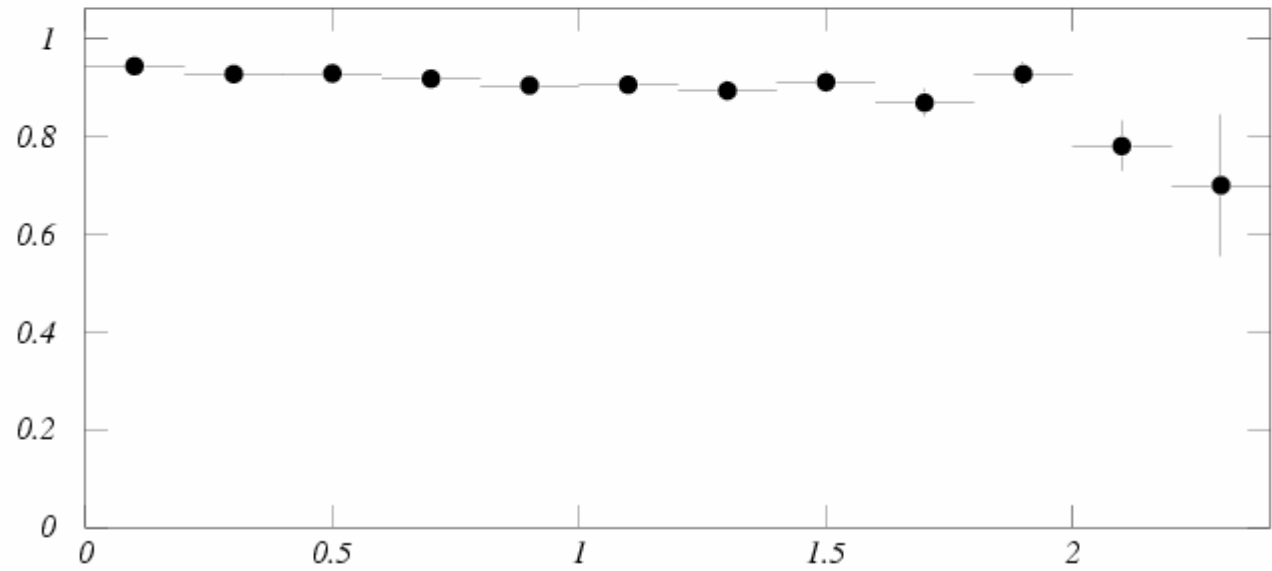
Introduced a new tracking algorithm: IO

- Attach COT hits to silicon only tracks that cross the COT
- Considerably improved resolution on silicon tracks
 - Curvature resolution improved by factor of 2
 - Other track parameters slightly improved
- IO tracks have very low fake rate
- Also used to removed COT/silicon duplicates
 - No more high momentum fakes silicon tracks in the central region
- Efficiency of combined tracking
 $\sim 65\%$ at $\eta = 1.3$





Eff Vs. $P_T(\text{Trk})$ 1mbr



Eff Vs. $\eta(\text{Trk})$ 1mbr

Still a ways to go to
TDR tracking: